



Calibration Number  
 G-000009777

# CALIBRATION CERTIFICATE

**For**  
 30 - 50 lb Weights  
 6 - Weight Kits

**Submitted By**  
 Bastrop Scale Company, Incorporated  
 PO Drawer 2100  
 Bastrop, Texas 78602

The measurement results of the Texas Department of Agriculture, Giddings Metrology Laboratory are traceable to the International System of Units (SI) through the measurements at the National Institute of Standards and Technology (NIST) and are a part of comprehensive measurement assurance program for ensuring continuous accuracy and measurement traceability within the level of the uncertainty reported by this laboratory. The laboratory calibration number above is the unique report number to be used in referencing measurement traceability for artifacts identified in this certificate only. The data applies only to the artifacts identified in this certificate at the time of test. Calibration certificate shall not be reproduced, except in full, without written laboratory approval.

Calibration Date: 12/16/2025 Calibration Due: 12/31/2026 Issue Date: 12/16/2025 Average Temperature: 21.24 °C Average Humidity: 43.96 % Procedure: NISTIR 6969, SOP No. 8, Modified Substitution (Rev. 2019) Mass Standards: Giddings Metrology Laboratory Mass Echelon III Standards	Received Date: 12/15/2025 Condition Received: Acceptable
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Only compliance with tolerance specifications were evaluated for items listed on this certificate (failing values are indicated in the table, if any.) The uncertainty of the measurement was taken into account when making this statement of compliance. The weights were not evaluated for conformance with technical requirements (design, construction, material, magnetism, density, surface finish and marking.) Tolerances were taken from NIST 105-1 (1990), ASTM E617 (2023) or OIML R111 (2004).

The combined standard uncertainty consists of both Type A and Type B components, including the standard uncertainty reported for the standard, the standard uncertainty for the measurement process, and a component of uncertainty to account for any observed deviations that have a significant effect on the calibration combined, using the root sum square method. Air buoyancy was considered negligible and was not included. The uncertainty does not include contribution due to magnetism or irregular conditions on the surface of the weights. The expanded uncertainty given is in compliance with BIPM JCGM 100:2008, Guide to the Expression of Uncertainty in Measurement (GUM), 2008 and follows NISTIR 6969, SOP 29 (2019), with a variable *k* (coverage factor) representing a 95.45 % confidence level.

<p><b>Note:</b>          A positive correction indicates that the weight is heavier than the stated nominal value.          A negative correction indicates that the weight is lighter than the stated nominal value.</p> <p><b>Conversions:</b>          milligram (mg) to kilogram (kg): <math>kg = mg / 1000000</math>          milligram (mg) to gram (g): <math>g = mg / 1000</math>          milligram (mg) to pound (lb): <math>lb = mg \times 0.000002204622621848776</math>          milligram (mg) to ounce (oz): <math>oz = mg \times 0.00003527396194958041</math></p>
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*This certificate must not be used to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government.*

Lisa Corn  
 Manager for Metrology Laboratory  
 Agency Representative



Kirt Weyand  
 Metrologist  
 Approved Signatory



# TEXAS DEPARTMENT OF AGRICULTURE

COMMISSIONER SID MILLER

Metrology Laboratory - 1258 CR 226 / P.O. Box 1518 - Giddings, Texas 78942

## CALIBRATION CERTIFICATE

For

Calibration Date

12/16/2025

30 - 50 lb Weights

6 - Weight Kits

Calibration Number

G-000009777

Date Due

12/31/2026

Submitted by

Bastrop Scale Company, Incorporated

PO Drawer 2100

Bastrop, Texas 78602

Average Temperature: 21.24 °C

Average Humidity: 43.96 %

SOP Used: NISTIR 6969, SOP No. 8, Modified Substitution

Observations:

The artifacts described below have been compared to the standards of the State of Texas and were found to have the following mass corrections:

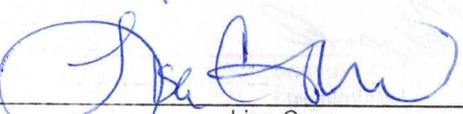
Nominal Value	Serial	ID #	As Found Mass Correction (mg)	As Left Mass Correction (mg)	Expanded Uncertainty (mg)	k factor	Tolerance Class	Tolerance Status	Tolerance (mg)
50 lb	BS69	-	-3120	10	300	2.002	NIST F	In Tolerance	2300
50 lb	BS50	-	-4790	-10	300	2.002	NIST F	In Tolerance	2300
50 lb	BS643	-	-2920	20	300	2.002	NIST F	In Tolerance	2300
50 lb	BS68	-	-10070	0	300	2.002	NIST F	In Tolerance	2300
50 lb	BS44	-	-2240	-30	300	2.002	NIST F	In Tolerance	2300
50 lb	BS38	-	-9080	-20	300	2.002	NIST F	In Tolerance	2300
50 lb	BS79	-	-4680	20	300	2.002	NIST F	In Tolerance	2300
50 lb	BS53	-	-4800	20	300	2.002	NIST F	In Tolerance	2300
50 lb	BS645	-	2080	10	300	2.002	NIST F	In Tolerance	2300
50 lb	BS604	-	-5240	10	300	2.002	NIST F	In Tolerance	2300
50 lb	BS72	-	-12720	-10	300	2.002	NIST F	In Tolerance	2300
50 lb	BS21	-	-3140	-10	300	2.002	NIST F	In Tolerance	2300
50 lb	BS14	-	-5490	10	300	2.002	NIST F	In Tolerance	2300
50 lb	BS125	-	-5990	-20	300	2.002	NIST F	In Tolerance	2300
50 lb	BS647	-	-9220	0	300	2.002	NIST F	In Tolerance	2300
50 lb	BS43	-	-5830	-30	300	2.002	NIST F	In Tolerance	2300
50 lb	BS629	-	1480	1480	300	2.002	NIST F	In Tolerance	2300
50 lb	BS30	-	-4040	10	300	2.002	NIST F	In Tolerance	2300
50 lb	BS119	-	-6500	-20	300	2.002	NIST F	In Tolerance	2300
50 lb	BS6201	-	5050	20	300	2.002	NIST F	In Tolerance	2300
50 lb	BS131	-	-7180	0	300	2.002	NIST F	In Tolerance	2300
50 lb	BS631	-	510	510	300	2.002	NIST F	In Tolerance	2300
50 lb	BS75	-	-3310	10	300	2.002	NIST F	In Tolerance	2300
50 lb	BS638	-	-10280	20	300	2.002	NIST F	In Tolerance	2300
50 lb	BS77	-	-5180	10	300	2.002	NIST F	In Tolerance	2300
50 lb	BS114	-	-4410	20	300	2.002	NIST F	In Tolerance	2300
50 lb	BS6213	-	2700	20	300	2.002	NIST F	In Tolerance	2300
50 lb	BS36	-	-4780	20	300	2.002	NIST F	In Tolerance	2300
50 lb	94XY	-	-3120	10	300	2.002	ASTM 6	In Tolerance	2300
50 lb	94XZ	-	-4140	-20	300	2.002	ASTM 6	In Tolerance	2300

• denotes a weight that was adjusted per NISTIR 6969, SOP 8.

▲ denotes a weight that was rejected.

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 Lisa Corn  
 Manager for Metrology Laboratory  
 Agency Representative



  
 Kirt Weyand  
 Metrologist  
 Approved Signatory



# TEXAS DEPARTMENT OF AGRICULTURE

COMMISSIONER SID MILLER

Metrology Laboratory - 1258 CR 226 / P.O. Box 1518 - Giddings, Texas 78942

## CALIBRATION CERTIFICATE

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Calibration Date

30 - 50 lb Weights

Calibration Number

12/16/2025

6 - Weight Kits

G-00009777

Date Due

Submitted by

12/31/2026

Bastrop Scale Company, Incorporated

PO Drawer 2100

Bastrop, Texas 78602

Average Temperature: 21.24 °C

Average Humidity: 43.96 %

SOP Used: NISTIR 6969, SOP No. 8, Modified Substitution

The artifacts described below have been compared to the standards of the State of Texas and were found to have the following mass corrections:

Nominal Value	Serial	ID #	As Found Mass Correction (mg)	As Left Mass Correction (mg)	Expanded Uncertainty (mg)	k factor	Tolerance Class	Tolerance Status	Tolerance (mg)
5 lb	3DNQ	1	8	8	28	2.002	NIST F	In Tolerance	230
5 lb	3DNQ	2	-1	-1	28	2.002	NIST F	In Tolerance	230
5 lb	3DNQ	4	16	16	28	2.002	NIST F	In Tolerance	230
5 lb	3DNQ	5	18	18	28	2.002	NIST F	In Tolerance	230
5 lb	3DNQ	5B	16	16	28	2.002	NIST F	In Tolerance	230
1 lb	3DNQ	1	-5.3	-5.3	8.3	2.004	NIST F	In Tolerance	70
1 lb	3DNQ	2	9.1	9.1	8.3	2.004	NIST F	In Tolerance	70
1 lb	3DNQ	3	10.8	10.8	8.3	2.004	NIST F	In Tolerance	70
1 lb	3DNQ	4	-8.3	-8.3	8.3	2.004	NIST F	In Tolerance	70
1 lb	3DNQ	5	13.9	13.9	8.3	2.004	NIST F	In Tolerance	70
8 oz	3DNQ	-	9.2	9.2	5.4	2.014	NIST F	In Tolerance	45
0.2 lb	3DNQ	-	4.8	4.8	2.1	2.01	NIST F	In Tolerance	18
0.2 lb	3DNQ	*	5.7	5.7	2.1	2.01	NIST F	In Tolerance	18
0.1 lb	3DNQ	-	3.6	3.6	1.1	2.005	NIST F	In Tolerance	9.1
0.05 lb	3DNQ	-	0.56	0.56	0.54	2.015	NIST F	In Tolerance	4.5
4 oz	3DNQ	-	8.1	8.1	2.7	2.007	NIST F	In Tolerance	23
2 oz	3DNQ	-	5.0	5.0	1.3	2.008	NIST F	In Tolerance	11
1 oz	3DNQ	-	1.86	1.86	0.65	2.004	NIST F	In Tolerance	5.4
0.02 lb	3DNQ	-	-0.35	-0.35	0.22	2.012	NIST F	In Tolerance	1.8
0.02 lb	3DNQ	*	-0.10	-0.10	0.22	2.012	NIST F	In Tolerance	1.8
0.01 lb	3DNQ	-	0.56	0.56	0.18	2.015	NIST F	In Tolerance	1.5
0.005 lb	3DNQ	-	0.75	0.75	0.15	2.01	NIST F	In Tolerance	1.2
0.002 lb	3DNQ	-	0.63	0.63	0.10	2.015	NIST F	In Tolerance	0.87
0.002 lb	3DNQ	*	0.50	0.50	0.10	2.015	NIST F	In Tolerance	0.87
0.001 lb	3DNQ	-	0.011	0.011	0.084	2.016	NIST F	In Tolerance	0.7
1/2 oz	3DNQ	-	0.69	0.69	0.33	2.009	NIST F	In Tolerance	2.8
1/4 oz	3DNQ	-	0.66	0.66	0.20	2.012	NIST F	In Tolerance	1.7
1/8 oz	3DNQ	-	0.06	0.06	0.16	2.015	NIST F	In Tolerance	1.3
1/16 oz	3DNQ	-	0.57	0.57	0.13	2.013	NIST F	In Tolerance	1.1
1/32 oz	3DNQ	-	0.39	0.39	0.10	2.014	NIST F	In Tolerance	0.87

\* denotes a weight that was adjusted per NISTIR 6969, SOP 8.

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 Lisa Corn  
 Manager for Metrology Laboratory  
 Agency Representative



  
 Kirt Weyand  
 Metrologist  
 Approved Signatory



# TEXAS DEPARTMENT OF AGRICULTURE

COMMISSIONER SID MILLER

Metrology Laboratory - 1258 CR 226 / P.O. Box 1518 - Giddings, Texas 78942

## CALIBRATION CERTIFICATE

For

Calibration Date  
12/16/2025

30 - 50 lb Weights  
6 - Weight Kits

Calibration Number  
G-000009777

Date Due  
12/31/2026

Submitted by  
Bastrop Scale Company, Incorporated  
PO Drawer 2100  
Bastrop, Texas 78602

Average Temperature: 21.24 °C  
Average Humidity: 43.96 %  
SOP Used: NISTIR 6969, SOP No. 8, Modified Substitution

The artifacts described below have been compared to the standards of the State of Texas and were found to have the following mass corrections:

Nominal Value	Serial	ID #	As Found Mass Correction (mg)	As Left Mass Correction (mg)	Expanded Uncertainty (mg)	k factor	Tolerance Class	Tolerance Status	Tolerance (mg)
1/32 oz	3DNQ	*	0.48	0.48	0.10	2.014	NIST F	In Tolerance	0.87
5 kg	3DNS	-	126	126	60	2.005	NIST F	In Tolerance	500
2 kg	3DNS	-	33	33	24	2.008	NIST F	In Tolerance	200
2 kg	3DNS	*	53	53	24	2.008	NIST F	In Tolerance	200
1 kg	3DNS	-	19	19	12	2.007	NIST F	In Tolerance	100
500 g	3DNS	-	25.0	25.0	8.3	2.007	NIST F	In Tolerance	70
200 g	3DNS	-	14.8	14.8	4.7	2.009	NIST F	In Tolerance	40
200 g	3DNS	*	10.7	10.7	4.7	2.009	NIST F	In Tolerance	40
100 g	3DNS	-	3.7	3.7	2.4	2.009	NIST F	In Tolerance	20
50 g	3DNS	-	5.9	5.9	1.2	2.009	NIST F	In Tolerance	10
20 g	3DNS	-	1.14	1.14	0.47	2.009	NIST F	In Tolerance	4
20 g	3DNS	*	1.11	1.11	0.47	2.009	NIST F	In Tolerance	4
10 g	3DNS	-	0.99	0.99	0.24	2.011	NIST F	In Tolerance	2
5 g	3DNS	-	-0.87	-0.87	0.18	2.011	NIST F	In Tolerance	1.5
2 g	3DNS	-	0.68	0.68	0.13	2.01	NIST F	In Tolerance	1.1
2 g	3DNS	*	0.52	0.52	0.13	2.01	NIST F	In Tolerance	1.1
1 g	3DNS	-	0.31	0.31	0.11	2.009	NIST F	In Tolerance	0.9
10 lb	BS105	*	-30	-30	54	2.014	NIST F	In Tolerance	450
10 lb	BS105	**	10	10	54	2.014	NIST F	In Tolerance	450
5 lb	BS105	-	-35	-35	28	2.002	NIST F	In Tolerance	230
2 lb	BS105	-	-8	-8	11	2.01	NIST F	In Tolerance	91
2 lb	BS105	*	-9	-9	11	2.01	NIST F	In Tolerance	91
1 lb	BS105	-	-8.2	-8.2	8.3	2.004	NIST F	In Tolerance	70
8 oz	BS105	-	4.8	4.8	5.4	2.014	NIST F	In Tolerance	45
0.2 lb	BS105	-	4.9	4.9	2.1	2.01	NIST F	In Tolerance	18
0.2 lb	BS105	*	4.9	4.9	2.1	2.01	NIST F	In Tolerance	18
0.1 lb	BS105	-	3.3	3.3	1.1	2.005	NIST F	In Tolerance	9.1
0.05 lb	BS105	-	0.64	0.64	0.54	2.015	NIST F	In Tolerance	4.5
0.02 lb	BS105	-	-0.38	-0.38	0.22	2.012	NIST F	In Tolerance	1.8
0.02 lb	BS105	*	-0.49	-0.49	0.22	2.012	NIST F	In Tolerance	1.8

\* denotes a weight that was adjusted per NISTIR 6969, SOP 8.

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Lisa Corn  
Manager for Metrology Laboratory  
Agency Representative



Kirt Weyand  
Metrologist  
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# CALIBRATION CERTIFICATE

For

Calibration Date

30 - 50 lb Weights

Calibration Number

12/16/2025

6 - Weight Kits

G-000009777

Date Due

Submitted by

12/31/2026

Bastrop Scale Company, Incorporated

PO Drawer 2100

Bastrop, Texas 78602

Average Temperature: 21.24 °C

Average Humidity: 43.96 %

SOP Used: NISTIR 6969, SOP No. 8, Modified Substitution

The artifacts described below have been compared to the standards of the State of Texas and were found to have the following mass corrections:

Nominal Value	Serial	ID #	As Found Mass Correction (mg)	As Left Mass Correction (mg)	Expanded Uncertainty (mg)	k factor	Tolerance Class	Tolerance Status	Tolerance (mg)
0.01 lb	BS105	-	0.30	0.30	0.18	2.015	NIST F	In Tolerance	1.5
0.005 lb	BS105	-	0.81	0.81	0.15	2.01	NIST F	In Tolerance	1.2
0.002 lb	BS105	-	0.46	0.46	0.10	2.015	NIST F	In Tolerance	0.87
0.002 lb	BS105	*	0.46	0.46	0.10	2.015	NIST F	In Tolerance	0.87
0.001 lb	BS105	-	0.308	0.308	0.084	2.016	NIST F	In Tolerance	0.7
0.001 lb	BS6178	-	0.422	0.422	0.084	2.016	NIST F	In Tolerance	0.7
5 lb	BS6178	A	2	2	28	2.002	NIST F	In Tolerance	230
5 lb	BS6178	B	5	5	28	2.002	NIST F	In Tolerance	230
5 lb	BS6178	C	-35	-35	28	2.002	NIST F	In Tolerance	230
5 lb	BS6178	D	18	18	28	2.002	NIST F	In Tolerance	230
5 lb	BS6178	E	10	10	28	2.002	NIST F	In Tolerance	230
1 lb	BS6178	A	21.8	21.8	8.3	2.004	NIST F	In Tolerance	70
1 lb	BS6178	B	10.8	10.8	8.3	2.004	NIST F	In Tolerance	70
1 lb	BS6178	C	-11.6	-11.6	8.3	2.004	NIST F	In Tolerance	70
1 lb	BS6178	D	12.4	12.4	8.3	2.004	NIST F	In Tolerance	70
1 lb	BS6178	E	8.2	8.2	8.3	2.004	NIST F	In Tolerance	70
8 oz	BS6178	-	13.5	13.5	5.4	2.014	NIST F	In Tolerance	45
0.2 lb	BS6178	-	4.9	4.9	2.1	2.01	NIST F	In Tolerance	18
0.2 lb	BS6178	*	3.2	3.2	2.1	2.01	NIST F	In Tolerance	18
0.1 lb	BS6178	-	2.9	2.9	1.1	2.005	NIST F	In Tolerance	9.1
0.05 lb	BS6178	-	1.49	1.49	0.54	2.015	NIST F	In Tolerance	4.5
0.02 lb	BS6178	-	0.02	0.02	0.22	2.012	NIST F	In Tolerance	1.8
0.02 lb	BS6178	*	0.14	0.14	0.22	2.012	NIST F	In Tolerance	1.8
0.01 lb	BS6178	-	-0.14	-0.14	0.18	2.015	NIST F	In Tolerance	1.5
0.005 lb	BS6178	-	0.89	0.89	0.15	2.01	NIST F	In Tolerance	1.2
0.002 lb	BS6178	-	0.49	0.49	0.10	2.015	NIST F	In Tolerance	0.87
0.002 lb	BS6178	*	0.65	0.65	0.10	2.015	NIST F	In Tolerance	0.87
0.001 lb	BS6178	-	0.283	0.283	0.084	2.016	NIST F	In Tolerance	0.7
5 kg	BS6198	-	111	111	60	2.005	NIST F	In Tolerance	500
2 kg	BS6198	A	44	44	24	2.008	NIST F	In Tolerance	200

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 Agency Representative



NVLAP Lab Code 600376-0

Kirt Weyand  
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TEXAS DEPARTMENT OF AGRICULTURE  
COMMISSIONER SID MILLER

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6 - Weight Kits

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2 kg	BS6198	B	29	29	24	2.008	NIST F	In Tolerance	200
1 kg	BS6198	-	2	2	12	2.007	NIST F	In Tolerance	100
500 g	BS6198	-	12.4	12.4	8.3	2.007	NIST F	In Tolerance	70
200 g	BS6198	A	7.3	7.3	4.7	2.009	NIST F	In Tolerance	40
200 g	BS6198	B	8.4	8.4	4.7	2.009	NIST F	In Tolerance	40
100 g	BS6198	*	8.6	8.6	2.4	2.009	NIST F	In Tolerance	20
50 g	BS6198	-	3.6	3.6	1.2	2.009	NIST F	In Tolerance	10
20 g	BS6198	-	1.33	1.33	0.47	2.009	NIST F	In Tolerance	4
20 g	BS6198	*	1.50	1.50	0.47	2.009	NIST F	In Tolerance	4
10 g	BS6198	-	0.45	0.45	0.24	2.011	NIST F	In Tolerance	2
5 g	BS6198	-	-0.04	-0.04	0.18	2.011	NIST F	In Tolerance	1.5
2 g	BS6198	-	0.23	0.23	0.13	2.01	NIST F	In Tolerance	1.1
2 g	BS6198	*	0.53	0.53	0.13	2.01	NIST F	In Tolerance	1.1
1 g	BS6198	-	-0.04	-0.04	0.11	2.009	NIST F	In Tolerance	0.9
5 lb	WK6558A	A	13	13	28	2.002	NIST F	In Tolerance	230
5 lb	WK6558A	B	46	46	28	2.002	NIST F	In Tolerance	230
5 lb	WK6558A	C	41	41	28	2.002	NIST F	In Tolerance	230
5 lb	WK6558A	D	31	31	28	2.002	NIST F	In Tolerance	230
5 lb	WK6558A	E	7	7	28	2.002	NIST F	In Tolerance	230
8 oz	WK6558A	-	-1.7	-1.7	5.4	2.014	NIST F	In Tolerance	45
0.2 lb	WK6558A	-	3.9	3.9	2.1	2.01	NIST F	In Tolerance	18
0.2 lb	WK6558A	*	1.7	1.7	2.1	2.01	NIST F	In Tolerance	18
0.1 lb	WK6558A	-	3.8	3.8	1.1	2.005	NIST F	In Tolerance	9.1
0.05 lb	WK6558A	-	2.39	2.39	0.54	2.015	NIST F	In Tolerance	4.5
0.02 lb	WK6558A	-	0.93	0.93	0.22	2.012	NIST F	In Tolerance	1.8
0.02 lb	WK6558A	*	-0.01	-0.01	0.22	2.012	NIST F	In Tolerance	1.8
0.01 lb	WK6558A	-	0.74	0.74	0.18	2.015	NIST F	In Tolerance	1.5
0.005 lb	WK6558A	-	0.50	0.50	0.15	2.01	NIST F	In Tolerance	1.2
0.002 lb	WK6558A	-	0.36	0.36	0.10	2.015	NIST F	In Tolerance	0.87
0.002 lb	WK6558A	*	0.53	0.53	0.10	2.015	NIST F	In Tolerance	0.87

\* denotes a weight that was adjusted per NISTIR 6969, SOP 8.

▲ denotes a weight that was rejected.

Only compliance with tolerance specifications were evaluated for items listed on this certificate (failing values are indicated in the table, if any.) The uncertainty of the measurement was taken into account when making this statement of compliance. The weights were not evaluated for conformance with technical requirements (design, construction, material, magnetism, density, surface finish and marking.) Tolerances were taken from NIST 105-1 (1990), ASTM E617 (2023) or OIML R111 (2004).

The combined standard uncertainty consists of both Type A and Type B components, including the standard uncertainty reported for the standard, the standard uncertainty for the measurement process, and a component of uncertainty to account for any observed deviations that have a significant effect on the calibration combined, using the root sum square method. Air buoyancy was considered negligible and was not included. The uncertainty does not include contribution due to magnetism or irregular conditions on the surface of the weights. The expanded uncertainty given is in compliance with BIPM JCGM 100:2008, Guide to the Expression of Uncertainty in Measurement (GUM), 2008 and follows NISTIR 6969, SOP 29 (2019), with a variable k (coverage factor) representing a 95.45 % confidence level.

Lisa Corn  
Manager for Metrology Laboratory  
Agency Representative



Kirt Weyand  
Metrologist  
Approved Signatory



TEXAS DEPARTMENT OF AGRICULTURE  
COMMISSIONER SID MILLER

Metrology Laboratory - 1258 CR 226 / P.O. Box 1518 - Giddings, Texas 78942

# CALIBRATION CERTIFICATE

For

Calibration Date

12/16/2025

30 - 50 lb Weights

6 - Weight Kits

Calibration Number

G-000009777

Date Due

12/31/2026

Submitted by

Bastrop Scale Company, Incorporated

PO Drawer 2100

Bastrop, Texas 78602

Average Temperature: 21.24 °C

Average Humidity: 43.96 %

SOP Used: NISTIR 6969, SOP No. 8, Modified Substitution

The artifacts described below have been compared to the standards of the State of Texas and were found to have the following mass corrections:

Nominal Value	Serial	ID #	As Found Mass Correction (mg)	As Left Mass Correction (mg)	Expanded Uncertainty (mg)	k factor	Tolerance Class	Tolerance Status	Tolerance (mg)
1 lb	WK6558A	A	11.9	11.9	8.3	2.004	NIST F	In Tolerance	70
1 lb	WK6558A	B	8.2	8.2	8.3	2.004	NIST F	In Tolerance	70
1 lb	WK6558A	C	5.5	5.5	8.3	2.004	NIST F	In Tolerance	70
1 lb	WK6558A	D	14.3	14.3	8.3	2.004	NIST F	In Tolerance	70
1 lb	WK6558A	E	-2.9	-2.9	8.3	2.004	NIST F	In Tolerance	70

• denotes a weight that was adjusted per NISTIR 6969, SOP 8.

▲ denotes a weight that was rejected.

Only compliance with tolerance specifications were evaluated for items listed on this certificate (failing values are indicated in the table, if any.) The uncertainty of the measurement was taken into account when making this statement of compliance. The weights were not evaluated for conformance with technical requirements (design, construction, material, magnetism, density, surface finish and marking.) Tolerances were taken from NIST 105-1 (1990), ASTM E617 (2023) or OIML R111 (2004).

The combined standard uncertainty consists of both Type A and Type B components, including the standard uncertainty reported for the standard, the standard uncertainty for the measurement process, and a component of uncertainty to account for any observed deviations that have a significant effect on the calibration combined, using the root sum square method. Air buoyancy was considered negligible and was not included. The uncertainty does not include contribution due to magnetism or irregular conditions on the surface of the weights. The expanded uncertainty given is in compliance with BIPM JCGM 100:2008, Guide to the Expression of Uncertainty in Measurement (GUM), 2008 and follows NISTIR 6969, SOP 29 (2019), with a variable k (coverage factor) representing a 95.45 % confidence level.

Lisa Corn

Manager for Metrology Laboratory  
Agency Representative



NVLAP Lab Code 600376-0

Kirt Weyand  
Metrologist

Approved Signatory